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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/801,488	03/15/2004	Gary Kevin Avery	051373-0125	1210
59555	7590	09/30/2008	EXAMINER	
RATHE PATENT & IP LAW 10611 W. HAWTHORNE FARMS LANE MEQUON, WI 53097			NGUYEN, VAN H	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/801,488	Applicant(s) AVERY ET AL.	
	Examiner VAN H. NGUYEN	Art Unit 2194	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 15 March 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-43 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-43 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 15 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>09/01/2004</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This communication is responsive to the application filed 03/15/2004.

Claims 1-43 are presented for examination.

Oath/Declaration

2. The Office acknowledges receipt of a properly signed Oath/Declaration submitted 09/01/2004.

Drawings

3. The drawings filed 03/15/2004 are accepted by the examiner.

Information Disclosure Statement

4. The Applicants' Information Disclosure Statement, filed 09/01/2004, has been received, entered into the record, and considered.

Specification

5. The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

The abstract is objected to because it does not comply with 37 CFR § 1.72.

(b) A brief abstract of the technical disclosure in the specification must commence on a separate sheet, preferably following the claims, under the heading "Abstract" or "Abstract of the Disclosure." The sheet or sheets presenting the abstract may not include other parts of the application or other material. The abstract in an application filed under 35 U.S.C. 111 may not exceed 150 words in length. The purpose of the abstract is to enable the United States Patent and Trademark Office and the public generally to determine quickly from a cursory inspection the nature and gist of the technical disclosure.

Also, the abstract is objected to because it does not comply with MPEP § 608.01(b).

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent

claims, such as “means” and “said,” should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, “The disclosure concerns,” “The disclosure defined by this invention,” “The disclosure describes,” etc.

Claim Objections

6. Claims 2-33 and 35-43 are objected to because of the following informalities:
 - As to dependent Claims 2-33: the claims should start with “the system” since they are referring to “a system” of independent Claim 1.
 - As to dependent Claims 35-43: the claims should start with “the method” since they are referring to “a method” of independent Claim 34.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 2-5, 25, 26, 31, 35, and 38 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claims 2, 31, and 35, the phrase “*may be*” renders the claim indefinite because it is unclear whether the limitation(s) following the phrase are part of the claimed invention. See MPEP § 2173.05(d). The resulting claim does not clearly set forth the metes and bounds of the patent protection desired. The use of similar exemplary language “for example” or “such as” was found to be indefinite in the following cases: Ex parte Hall, 83 USPQ 38 (Bd. App. 1949); Ex parte Hasche, 86 USPQ 481 (Bd. App. 1949); Ex parte Steigerwald, 131 USPQ 74 (Bd. APP. 1961).

All claims that depend upon indefinite claims also stand rejected under 35 U.S.C. § 112, second paragraph.

Regarding dependent claim 14, the phrase “*mobile client device*” renders the claim indefinite. It is not clear if it is referring to “*a mobile client device*” recited in independent claim 1.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-43 are rejected under 35 U.S.C. 102(b) as being anticipated by **Granade et al.** (US 20020103881 A1).

As to claim 34:

Granade teaches method for communication and mapping of business objects between a mobile client device and a plurality of backend systems via a network (see the Abstract, Paras. 0010-0011, Paras. 0010-0012, see also, Figs. 1-10 and the associated text) the method comprising:

- providing a plurality of mobile business processes, each mobile business process defining a flow and exchange of business objects between the mobile client device and at least one of the plurality of backend systems (see Paras. 0026-0036, see also, Figs. 1-2 and the associated text);
- defining a dynamic user interface based on at least one mobile business process, the dynamic user interface configured to integrate the business objects and the at least one mobile business process (see Paras. 0048-0050, see also, Figs. 3-4 and the associated text);
- transmitting the dynamic user interface definition and business objects to the mobile client device; and executing the dynamic user interface on the mobile client device to facilitate viewing and modifying of the business objects (see Paras. 0060-0071, see also, Figs. 6-8 and the associated text).

As to claim 35:

Granade teaches comprising creating a set of dynamic forms which may be transmitted to and presented on the mobile client device (see Figs. 6-8 and the associated text).

As to claim 36:

Granade teaches defining automatic logic that is used to drive the dynamic user interface on the mobile client device (see Figs. 1-4 and the associated text).

As to claim 37:

Granade teaches defining conditional logic that is used to drive the dynamic user interface on the mobile client device (see Figs. 1-4 and the associated text).

As to claim 38:

Granade teaches defining a set of data validation rules used to validate data entered in the dynamic forms presented on the mobile client device (see Fig. 2 and the associated text).

As to claim 39:

Granade teaches the dynamic user interface is defined to facilitate receipt of data used to drive a mobile business process (see Figs. 1-4 and the associated text).

As to claim 40:

Granade teaches the communication of business objects between the mobile client device and the plurality of mobile backend systems is a synchronous communication (see Para. 0033).

As to claim 41:

Granade teaches the communication of business objects between the mobile client devices and the plurality of backend systems is an asynchronous communication (see Para. 0033).

As to claim 42:

Granade teaches generating notification messages; transmitting notification messages to the mobile client device; and receiving acknowledgements of receipt from the mobile client device (see Para. 0033).

As to claim 43:

Granade teaches the dynamic user interface includes a plurality of screens having a plurality of data fields and a plurality of display fields (see Fig. 2 and the associated text).

As to claims 1-3:

Refer to claims 34-36 above for rejection.

As to claim 4:

Granade teaches the application builder is further configured to define conditional logic that is used to drive the dynamic user interface on the mobile client device (see Paras. 0048-0050, see also, Figs. 3-4 and the associated text).

As to claim 5:

Granade teaches the application builder is further configured to define a set of data validation rules used to validate data entered in the dynamic forms presented on the mobile client device (see Fig. 2 and the associated text).

As to claim 5:

Granade teaches the mobile client device further includes a business object cache configured to provide a local cache of business objects on the mobile client device (see Paras. 0054 and 0071).

As to claim 7:

Granade teaches the business objects are formatted using extensible markup language (see Paras. 0050 and 0060-0064).

As to claim 8:

Granade teaches the mobile server further includes a business object database coupled to the process automation engine, the business object database configured to store business object records including a plurality of fields, wherein the status of a business object is indicated by a status field in the business object record (see Fig. 2 and the associated text).

As to claim 9:

Granade teaches the status field indicates whether data of the business object record has been changed (see Fig. 2 and the associated text).

As to claim 10:

Granade teaches the communication module is further configured to determine a connection status of the mobile client device (see Fig. 2 and the associated text).

As to claim 11:

Granade teaches the communication of business objects between the mobile client device and the process automation engine is a synchronous communication (see Para. 0033).

As to claim 12:

Granade teaches the communication of business objects between the mobile client device and the process automation engine is an asynchronous communication (see Para. 0033).

As to claim 13:

Granade teaches the mobile server further includes a notification management module coupled to the communication module and the plurality of backend systems, the notification management module configured to generate and transmit a message to the mobile client device (see Fig. 2 and the associated text).

As to claim 14:

Granade teaches mobile client device is configured to provide a notification to the notification management module that a message has been delivered (see Fig. 2 and the

associated text).

As to claim 15:

Granade teaches the mobile server further includes a set of adapters coupled to the process automation engine, the plurality of adapters configured to provide integration to the plurality of backend systems (see Paras. 0043-0048).

As to claim 16:

Granade teaches a directory server coupled to the communication module and the presentation module, the directory server configured to authenticate authorization information provided by the mobile client device (see Para. 0032).

As to claim 17:

Granade teaches the mobile client device further includes a client application database configured to store tables including data used to drive the dynamic user interface (see Paras. 0012 and 0025).

As to claim 18:

Granade teaches the dynamic user interface is defined *using one of* extensible markup language (XML), dynamic hypertext markup language (DHTML), Java Server Pages (JSP), a scripting language, or a compiled module (see Paras. 0050 and 0060-0064).

As to claim 19:

Granade teaches the dynamic user interface includes a plurality of screens having a plurality of data fields and a plurality of display fields (see Fig. 2 and the associated text).

As to claim 20:

Granade teaches the communication module is further configured to marshal the business objects (see Figs. 1-3 and the associated text).

As to claim 21:

Granade teaches the dynamic user interface is defined to facilitate receipt of data used to drive a mobile business process (see Figs. 1-3 and the associated text).

As to claim 22:

Granade teaches the network is the Internet (see Para. 0024).

As to claim 23:

Granade teaches the mobile client device is connected to the network via a wireless connection (see Paras. 0024-0025 and 0056-0058).

As to claim 24:

Granade teaches the mobile client device is connected to the network via a wired connection (see Figs. 1-3 and the associated text).

As to claim 25:

Granade teaches the application builder is configured to create form sequences which may drive a centralized form definition (see Figs. 1-3 and the associated text).

As to claim 26:

Granade teaches the application builder is configured to dynamically create tables of data based on the dynamic forms.

As to claim 27:

Granade teaches the mobile client device further includes a database configured for local caching of business objects.

As to claim 28:

Granade teaches the presentation module is configured to convert business objects received from the mobile client device from a compressed form to extensible markup language (see Paras. 0050 and 0060-0064).

As to claim 29:

Granade teaches the notification management module is further configured to recall messages that have not been confirmed by the mobile client device (see Paras. 0032-0035).

As to claim 30:

Granade teaches a delivery of business objects from the mobile server to the mobile client device is integrated with the plurality of business processes (see Figs. 1-4 and the associated text).

As to claim 31:

Granade teaches a single login process may be implemented for both the mobile client device and the mobile server (see Fig. 2 and the associated text).

As to claim 32:

Granade teaches the communication module is configured to receive and transmit data using a secure transmission technique (see Para. 0032).

As to claim 33:

Granade teaches the communication module is configured to process compressed data for

use with a wireless network (see Paras. 0024-0025 and 0056-0058).

Conclusion

9. The prior art made of record, see PTO 892, and not relied upon is considered pertinent to applicant's disclosure. Applicant should review these references carefully before responding to this office action.

Contact Information

10. Any inquiry or a general nature or relating to the status of this application should be directed to the TC 2100 Group receptionist: (571) 272-2100.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to VAN H. NGUYEN whose telephone number is (571) 272-3765. The examiner can normally be reached on Monday-Thursday from 8:30AM 6:00PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MENG-AI AN can be reached at (571) 272-3756.

The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

**/VAN H NGUYEN/
Primary Examiner, Art Unit 2194**